AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-9 (cancelled).

- 10. (Currently amended) A second-generation colloid prepared by
 - (a) polymerizing one or more polymerizable components around a first-generation colloidal template;
 - (b) selectively removing the first-generation colloidal template to yield a porous polymer;
 - (c) deforming said porous polymer such that said porous polymer includes nonspherical pores;
 - (d) depositing a material into the non-spherical-pores of the porous polymer so as to form said material into ellipsoidal particles having an aspect ratio between 1.47 and 5.0; and
 - (e) selectively removing the porous polymer.
- 11. (Original) The second-generation colloid of claim 10 wherein the porous polymer is an ordered, monodisperse macroporous polymer and the second-generation colloid is an ordered, monodisperse colloid.

12-15. Canceled.

- 16. (Currently amended) A metallic second-generation ordered, monodisperse colloid prepared by
 - (a) polymerizing one or more polymerizable components around a first-generation colloidal template;
 - (b) selectively removing the first-generation colloidal template to yield an ordered, monodisperse porous polymer having pores;
 - (c) deforming said porous polymer such that said pores become non-spherical;

- (d) depositing a metal into the non-spherical pores of the porous polymer so as to form said metal into ellipsoidal particles having an aspect ratio between 1.47 and 5.0; and
- (e) selectively removing the porous polymer.
- 17. (Previously amended) The second-generation colloid of claim 16 wherein said second-generation colloid comprises a material selected from the group consisting of nickel and gold.
- 18-19. Canceled.
- 20-21. Canceled.
- 22 29 Cancelled.
- 30. (Currently amended) A method for preparing a second-generation colloid comprising the steps of:
 - (a) providing a colloidal template;
 - (b) infiltrating said colloidal template with polymerizable components;
 - (c) polymerizing said polymerizable components;
 - (d) selectively removing said colloidal template to yield a porous polymer;
 - (e) heating said porous polymer above its glass transition temperature;
 - (f) deforming said porous polymer such that said porous polymer includes nonspherical pores;
 - (g) cooling said porous polymer below its glass transition temperature;
 - (h) depositing a material into the non-spherical pores of said porous polymer so as to form said material into ellipsoidal particles having an aspect ratio between 1.47 and 5.0; and
 - (i) selectively removing said porous polymer.
- 31. (Original) The method according to claim 30 wherein said colloidal template is an ordered, monodisperse colloid; said porous polymer is an ordered, monodisperse macroporous polymer; and said second-generation colloid is an ordered, monodisperse colloid.

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- 32. (Original) The method according to claim 31 wherein said second-generation colloid comprises a ceramic material.
- 33. (Original) The method according to claim 31 wherein said second-generation colloid comprises a material selected from the group consisting of alumina, titania and zirconia.
- 34. (Original) The method according to claim 31 wherein said second-generation colloid comprises an inorganic salt.
- 35. (Original) The method according to claim 31 wherein said second-generation colloid comprises a material selected from the group consisting of cadmium sulfide and silver chloride.
- 36. (Original) The method according to claim 31 wherein said second-generation colloid comprises a metal.
- 37. (Original) The method according to claim 31 wherein said second-generation colloid comprises a material selected from the group consisting of nickel and gold.
- 38. (Original) The method according to claim 31 wherein said second-generation colloid comprises a polymer.
- 39. (Original) The method according to claim 31 wherein said second-generation colloid comprises a material selected from the group consisting of poly(p-phenylene vinylene) and polypyrrole.
- 40. (Original) The method according to claim 31 wherein said porous polymer comprises a material selected from the group consisting of poly(methyl methacrylate) and polystyrene.
- 41. (Currently amended) The method according to claim 31 wherein said second-generation colloid comprises oblate particles.

- 42. (Original) The method according to claim 31, further comprising the step of deforming said porous polymer so that said second-generation colloid comprises ellipsoidal particles.
- 43. (Cancelled).
- 44. (Currently amended) An optical bandgap material comprising an second-generation ordered, monodisperse colloid prepared by the method of claim <u>10</u> 4.
- 45. (New) The second-generation colloid of claim 11 wherein said second-generation colloid comprises a ceramic material.
- 46. (New) The second-generation colloid of claim 11 wherein said second-generation colloid comprises a material selected from the group consisting of alumina, titania and zirconia.
- 47. (New) The second-generation colloid of claim 11 wherein said second-generation colloid comprises an inorganic salt.
- 48. (New) The second-generation colloid of claim 11 wherein said second-generation colloid comprises a material selected from the group consisting of cadmium sulfide and silver chloride.
- 49. (New) The second-generation colloid of claim 11 wherein said second-generation colloid comprises a polymer.
- 50. (New) The second-generation colloid of claim 11 wherein said second-generation colloid comprises a material selected from the group consisting of poly(p-phenylene vinylene), polypyrrole, poly(methyl methacrylate) and polystyrene.

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